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**Changing Higher Education Policies:  
From the Deinstitutionalization to the Reinstitutionalization  
of the Research Mission in Polish Universities**

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## **Abstract**

The paper analyzes changing higher education policies in Poland in the last two decades. It argues that top Polish public universities became divided institutions, with different individual academic and institutional trajectories in the academic fields in which educational expansion occurred (social sciences) and in fields in which it was much less pronounced (natural sciences). Using the concepts drawn from new institutionalism in organizational studies, the paper views the 1990s as the period of the deinstitutionalization of traditional academic rules and norms in public universities, with growing uncertainty about the core of the academic identity. The empirical data studied include internationally visible publications and research-related academic promotions in different academic fields, changing over time. In the expansion era (1990-2005), prestigious public research universities became excessively teaching-oriented; in the period of educational contraction, their currently teaching-oriented segments are expected to become research-intensive. The new legislation grounded in an instrumental view of higher education is interpreted as a return to a traditional academic normative consensus, with increased emphasis on, and funding for, the research mission.

MAREK KWIEK

**CHANGING HIGHER EDUCATION POLICIES:  
FROM THE DEINSTITUTIONALIZATION  
TO THE REINSTITUTIONALIZATION  
OF THE RESEARCH MISSION IN POLISH UNIVERSITIES**

**1. Introduction**

The paper analyzes changing higher education policies in Poland in the last two decades.<sup>1</sup> It claims that the processes of the deinstitutionalization of traditional academic rules, norms and habits in the public sector were closely linked to the individual and institutional focus on teaching prevalent in the expansion era of Polish higher education (1990-2005), and in particular linked to the dramatic growth of the private sector in higher education combined with the legal opportunity of holding multiple (full) employments by academics from the public sector. It argues that prestigious Polish public universities, after about fifteen years of the co-existence with the demand-absorbing and teaching-oriented private sector, became fundamentally divided institutions. The paper discusses different (both individual academic and institutional) trajectories in knowledge production and research output in those academic fields in which substantial educational expansion occurred (social sciences) and in those fields in which educational expansion was much less pronounced (natural sciences).

The paper shows that traditional academic rules and norms in top public universities according to which research was of key importance to the academic enterprise were gradually weakening throughout the 1990s in the expansion-related, soft academic fields. The price of this process of weakening of traditional academic rules in soft (as opposed to hard) fields for top public universities was high, though: it was the prolonged institutional (as well as individual academic) focus on the teaching mission, at the expense of the research mission which becomes crucial in a new wave of reforms. The empirical data studied include

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internationally visible publications across different disciplines (from a Central European comparative perspective) and research-related academic promotions in Poland in different fields, both changing over time. In the postcommunist expansion era, prestigious public research universities became much more teaching-oriented, especially in soft disciplines, than could ever be expected judging from their traditionally elite and Humboldtian character. In the coming contraction era (projected for demographic reasons to last until 2025 and beyond), with new legislation in force since 2011, the teaching-oriented segments of public universities are expected by policymakers to become much more research-intensive. Low research engagement in the past two decades in social science segments of higher education institutions may be a substantial obstacle to the implementation of current reforms, leading to institutions heavily internally differentiated by research intensity of their major components. The policy challenge today is to implement new governance and funding approaches to institutions which are internally divided by institutional cultures putting different emphases on the university research mission.

Using the concepts drawn from new institutionalism in organizational studies, the present paper views the 1990s as the period of the gradual deinstitutionalization of traditional academic rules and norms in public universities, with growing uncertainty about which academic behaviors were legitimate and which were not, and what was the core of the academic identity in research universities. The deinstitutionalization processes were concentrated mainly in soft academic fields, in particular those which were in high social demand and which provided additional multiple employment opportunities in the expanding private sector. Recent higher education legislation reinstitutionalizes temporarily suspended (from a longer, historical perspective) traditional rules and norms and its implementation is viewed as the beginning of a transformation from one order into another order. It introduces new governance and funding principles, redefines the academic career ladder and presents new rationale behind public support for both teaching and research. Current government-produced, instrumental views (Maassen and Olsen 2007), expressed in practical terms in the new law of March 2011, seem to bring the research and teaching missions in top universities back to a healthy balance, much needed in knowledge-driven economies in which the role of university knowledge production is growing (Bonaccorsi et al. 2007, Kwiek 2012, see the role of what Dill and Van Vught, 2010, termed “academic research enterprise”).

The paper is divided into the following sections: the first section is the present introduction; the second section provides an analytical framework; the third section provides empirical background to the main claims of the paper: in particular, it refers to the international visibility of research production in Polish universities in soft and hard academic fields and to changing academic promotion patterns by academic fields; the fourth section discusses Polish reforms in the context of institutional and instrumental views of the university and Polish universities becoming instruments for national political agendas in the last wave of reforms; and the fifth section presents brief conclusions.

## **2. Analytical framework**

The present study makes analytical use of three interrelated notions coming from students of institutional change, particularly from new institutional theory in political sciences: these are institutionalization, deinstitutionalization and reinstitutionalization (see March and Olsen 1989, Peters 1999, Deephouse and Suchman 2008). The study links these notions to changing balance between university teaching and research missions in most prestigious Polish universities in 1990-2010 in hard and soft academic fields. Institutionalization, deinstitutionalization and reinstitutionalization as theoretical notions have not been used to study changes in higher education and in higher education policies, and certainly have not been referred to changing academic cultures in expanding postcommunist Central European systems. The paper uses a normative institutional approach to view the two decades of university transitions in Poland from the perspective of changing academic norms, rules, and behaviors.

For March and Olsen (2006a: 690), constitutive rules structure institutional behavior, rules prescribe what is appropriate action: “to act appropriately is to proceed according to the institutional practices of a collectivity, based on mutual, and often tacit understanding of what is true, reasonable, natural, right, and good”. Basic logic of action in institutions is rule-following, and models assuming “logic of appropriateness” are contrasted with models assuming “logic of consequentiality” (see Peters 2005). Institutionalization as a process includes the following three dimensions: increasing clarity and agreement about behavioral rules, increasing consensus concerning how behavioral rules are to be described, explained and justified, and increasing shared conceptions of what legitimate resources in different

settings are and who should have access to, or control over, common resources (Olsen 2010: 127). Deinstitutionalization, in contrast, implies that “existing institutional borders, identities, rules and practices, descriptions, explanations, and justifications, and resources and powers are becoming more contested and possibly even discontinued. There is increasing uncertainty, disorientation, and conflict” (Olsen 2010: 128). And, finally, reinstitutionalization implies, inter alia, “a transformation from one order into another, constituted on different normative and organizational principles” (Olsen 2010: 128). Deinstitutionalization, as W. Richard Scott notes in *Institutions and Organizations*, refers to processes by which “institutions weaken and disappear”, as well as to such phenomena as “enfeebled laws”, “diluted sanctions”, “increasing noncompliance”, “eroding norms”, “diminished force of obligatory expectations”, “the erosion of cultural beliefs and the increasing questioning of what was once taken for granted” (Scott 2008: 196, see also Djelic and Quack 2008: 301-304). Indicators employed to assess the extent of deinstitutionalization range from “weakening beliefs to abandonment of a set of practices” (Scott 2008: 198; the scale of the deinstitutionalization of the research mission in Polish universities can be measured only indirectly, through proxy indicators: the abandonment of some traditionally “taken-for granted activities”, in our case, research activities, will be shown through empirical data in the next section). Deinstitutionalization, as defined in a seminal study by Christine Oliver (1992), is

a process by which the legitimacy of an established or institutionalized organizational practice erodes or discontinues. Specifically, deinstitutionalization refers to the delegitimation of an established organizational practice or procedure as a result of organizational challenges to or the failure of organization to reproduce previously legitimated or taken-for-granted organizational actions (1992: 564).

Institutionalized organizational practices can “fall into disfavor or disuse” (Oliver 1992: 566). The next section presents empirical proxy indicators showing that academic community’s beliefs in research being a core university activity were gradually weakening in the postcommunist period, that research activities leading to international research output as an institutionalized organizational practice was eroding, and Polish universities as organizations were largely unable to reproduce its previously taken-for-granted (research-related) actions. For some time, especially in soft academic areas, major research-related sets of practices (viewed through the proxy indicators of internationally visible publications and research-based steps taken in career ladders across disciplines) were widely questioned; teaching-

related sets of organizational practices replaced in academic imagination previously well-established research-related sets of organizational practices. Of the three pressures that can lead to deinstitutionalization (political, functional, and social), the social pressures are most useful for the present analyses and come closest to Olsen's normative-oriented approach to deinstitutionalization. Social pressures lead members of the organization to discard (some) institutionalized practices; increasing normative fragmentation means a loss of consensus on the "meanings and interpretations that they attach to ongoing organizational tasks and activities" (Oliver 1992: 575). There is also an increasing "erosion of institutionalized rules through a declining normative consensus and cognitively shared systems of meaning" (Djelic and Quack 2008: 302).

It is analytically useful to apply the above three notions to Polish prestigious research universities as institutions constituted by, or based on, normative and organizational rules and codes of behavior. Deinstitutionalization in the present paper is specifically linked to the first decade and a half (the expansion era, 1990-2005) of the postcommunist transition period. The shock of the transition from a centrally-planned to a market economy was mirrored in the university sector by growing institutional uncertainty and disorientation: the relatively stable world of the communist-period balance in teaching and research missions in Poland (as opposed to most other countries in the region in which research was exiled to newly created Soviet-type Academies of Sciences) was shattered, and universities were given institutional autonomy. The expansion era, with dramatically increasing enrollments which meant dramatically increasing non-core non-state fee-based income, led to the growing role of teaching-related funding: student fees from part-time students in the public sector, student fees from all students in the private sector, and parallel employment opportunities (or academic moonlighting) for academics from public, especially prestigious, universities.

In the expansion era, there were ever more students in both sectors, and estimated 30-40% of academics (and about 70%-80% of professors) from the public sector in soft fields held parallel employment in the private sector, to make use of opportunities when they arise and to be able to maintain middle class standards of living while university salaries were falling behind salaries of other professionals. All institutions, including research universities, became teaching-focused in their soft fields. The traditional academic norms and codes of behavior which stressed the role of research for individual career progression and for institutional development were widely questioned by the academic community, more in practice than in

theory, and traditional research-based academic identities were contested. The force of obligatory research expectations from the academic community was diminishing. The changes in the academic approach to the research mission of prestigious universities – studied through the concept of deinstitutionalization – meant exactly “diluted sanctions” and “increasing noncompliance” with the unwritten postwar academic norm that research was the core of the academic enterprise in prestigious universities (Clark 1987). That norm was “eroding” and beliefs in research as a set of core academic practices were “weakening”. “What was once taken for granted” was increasingly, both individually by academics and institutionally by universities, being questioned. Prestigious universities were no longer able, or willing, or both, to provide proper legitimation for an established organizational practice of academic research. They failed as organizations to reproduce “previously legitimated or taken-for-granted organizational actions”. Social (and especially peer academic) pressures on being involved in research were low, the “erosion of institutionalized rules” was caused by a “declining normative consensus” about what constituted the core of academic activities in top universities.

The reinstitutionalization of academic norms and codes of behavior in the present paper is linked to reform initiatives following 2005, and, in particular, a coherent reform program of 2010-2011, marked by a set of six laws of 2010 reforming the research sector and a new law on higher education of 2011. The processes of deinstitutionalization of the research mission in Polish universities coincided with social and economic instabilities of the transition period in Polish economy in the 1990s, started by “shock therapies” leading to the market economy, and coincided with the expansion era in Polish higher education. The processes of reinstitutionalization coincide now with the period of a well-settled market economy model, combined with the political stability achieved through the EU membership and the contraction era already felt in Polish higher education and expected to be in full swing, for demographic reasons, in the coming years.

Processes of deinstitutionalization of traditional academic norms, habits and codes of behavior in large (soft) segments of the public sector are closely linked to the mostly monetary opportunities provided to the academic community by the expansion era: the dramatic growth of private higher education and of fee-based part-time teaching in the public sector (see Kwiek 2011a, 2010). We argue that traditional rules of higher education (authoritarian, communist, ideological but still very much Humboldtian in Poland) were

weakening throughout the 1990s and a sort of academic normative vacuum (Olsen's "uncertainty, disorientation, and conflict") appeared in the higher education sector. In this normative vacuum, all sorts of codes of academic behaviors and rules and norms of academic conduct, unthinkable a few years earlier, suddenly became academically acceptable.

In the expansion period, those academics in prestigious universities who were abandoning the research university mission, changing their working habits and refocusing on external, additionally-paid teaching did not risk the exclusion from the academic community. Clearly, what had been prestigious about top public universities was gradually getting lost, and the international research visibility of Polish academics in arts and humanities, social sciences, economics, business and finances was dramatically decreasing. By contrast, hard academic fields continued performing well or very well, despite financial austerity prevalent in public universities. Recent reforms tend to reestablish the research focus of top public universities, and within them, to decrease the knowledge production gap between hard and soft disciplines that have emerged in the expansion era. For this purpose, reforms use what Maassen and Olsen term "instrumental" logic, rather than "institutional" logic, discussed in section four.

We argue that the dramatic growth of private higher education in the 1990s was made possible by the gradual deinstitutionalization of traditional academic norms, codes of behavior and habits in (soft academic areas of) public universities which made academic moonlighting of its faculty perfectly acceptable. Both individually and institutionally. Large-scale multiple employment of the academic profession for about a decade became the (academic) norm, not the exception. The price to be paid by Polish higher education system as a whole was high, though: it was the gradual individual and institutional refocusing on teaching, at the expense of research, increasingly leading to the long-term knowledge production-based isolation from the international research community, as we shall show in empirical terms in section three. Traditional academic norms which sanctioned the crucial role of research activities in prestigious universities were temporarily suspended: academics relieved from "taken-for-granted" duties eagerly focused on large-scale, profit-driven teaching. The suspension period, referred to as the deinstitutionalization period, lasted until the 2010-2011 wave of reforms which may be interpreted as a government-inspired (rather than academics-driven) legal call to return to a traditional academic normative consensus about what top public universities should be doing and why. Recent reforms seem to complete the period of the (temporary) suspension of academic norms and codes of behavior, valid only for the economic transition

and educational expansion period. They attempt, among many other things, to bring the research dimension in top public universities back, providing both individual and institutional funding and career progression mechanisms related to individual and institutional, measurable, preferably international, research output. Traditionally, the role of research in postwar Western academia was clearly defined: as Burton Clark (1987: 102) formulated it, “it is research, as a task and as a basis for status, that makes the difference. ... The minority of academics who are actively engaged in research lead the profession in all important respects. Their work mystifies the profession, generates its modern myths, and throws up its heroes”. The new law through its new, highly competitive funding mechanisms reminds the (somehow surprised) academic community about the crucial role of research in top national universities. The reform package of 2010-2011 is viewed here as the reinstitutionalization of the research mission in Polish universities, or (in Olsen’s terms) as “a transformation from one order into another, constituted on different normative and organizational principles” (Olsen 2010: 128).

### **3. Empirical background: soft and hard fields, or the divided university**

This section is intended to provide empirical background to general claims about inter-disciplinarily divided universities and their contribution to global knowledge production. There are no direct indicators to refer to processes of deinstitutionalization of the research mission in universities. We suggest here to use proxy indicators by which to “measure” the scale of changes. We shall compare the internationally visible knowledge production in different academic disciplines in Polish universities and compare the research engagement of Polish academics across different academic disciplines. Both Central European comparisons and wider European comparisons, in time and across disciplines, will be made. In Poland in the postcommunist expansion era, the rules constituting the heart of the institution of the modern research university were not followed, and this not-following was not sanctioned: dozens of thousands of academics from public universities, especially those prestigious, and especially in social sciences and the humanities, economics, business and finance, were full-time engaged in additional paid teaching in emergent private institutions or in their own institutions (for fee-based part-time students), or both. Their average combined teaching workloads were breath-taking.

In general, there are several determinants of research productivity in universities, some endogenous and some exogenous to higher education systems (such as, for instance, overall levels of national research funding, its competitiveness and its private/third-stream share, Aghion et al. 2008, Lepori et al. 2007; university autonomy and governance structures, Aghion et al. 2009, Kwiek 2012a, 2012b; national university traditions and geographical location of institutions, Palfreyman and Tapper 1999; as well as exogenous factors related to what Porter calls “pillars of competitiveness”, for Central Europe, see Kwiek 2011b, 2012a, Porter 2010). But the present study focuses on the negative impact of heavily increased teaching loads (in public and private institutions combined, for masses of academics keeping parallel jobs) on the academic culture, in particular on the institutional research mission. The link between academic knowledge production in a group of most prestigious Polish higher education institutions (all public institutions legally defined as “universities” and “polytechnics”, 34 in total) and teaching loads was recently confirmed through empirical research based on microeconomic data from individual institutions: as Wolszczak-Derlacz and Parteka conclude (2010: 64): “there is a clear negative correlation between the number of students per academic staff member and the number of publications in ISI Web of Science per academic staff member ... we can conclude that research activity and didactics are indeed rather competitive than complementary”. As Bonaccorsi et al. pointed out (2007: 166) discussing what they termed the “trade-off between teaching and research”: “teaching and research bear upon a limited time budget of academic staff”. In a specific Polish case, academics in soft disciplines had much higher average (combined in both sectors) teaching loads than their Western European colleagues. The scale of (perfectly legal, and with no restrictions until 2010) multiple employment in Poland has been massive and its disciplinary concentration reflects the disciplinary concentration of private higher education (and part-time fee-based teaching in home public institutions). The data from the private sector show that in 2010, out of 17,136 full-time employed academics, only 503 (or less than 0.03%) indicated employment in a given private institutions as their “basic workplace”. For 99.9% academics working in the private sector, employment in this sector was additional to employment in the public sector. As Ministerial data from 2008 show, in the category of full professors, 37% were full-time employed in one additional institutions and 3% in two additional institutions: in total, 40% of all full professors held multiple employment. The data do not show the scale of part-time additional employment, though, and refer to all academic disciplines. This means in practical terms that perhaps 70%-80% of all full professors from the selected soft disciplines in which private sector was concentrated were holding multiple employment. In

fact, in the vast part of the academic profession, teaching was where the action was; academic cultures got changed, with measurable negative consequences of the teaching-focus of the academic profession for research productivity.

We shall refer here two consequences in two areas: in research output and in academic promotion patterns. The Polish university-based knowledge production seems today low from a European comparative perspective. A simple bibliometric analysis (performed on the basis of the SCImago Journal & Country Rank dataset that includes the journals and country scientific indicators developed from the information contained in the Scopus database, and referred to the 1996-2010 period; on the improvement of its subject classification, see Gómez-Núñez et al. 2011: 753-758) demonstrates a powerful disciplinary divide in Polish universities between hard and soft fields. (Results of analyses based on the commercial ISI Web of Science database should not be markedly different as we refer to general regional trends in the production of internationally visible publications). Instead of analyzing Polish research output in all academic fields, we focus on the strongest and the weakest fields in the last fifteen years, from global and regional (Central European) comparative perspectives, using the number of internationally recognized publications in a field as a proxy indicator for research engagement of academics in a given field in the countries studied. Higher research engagement in a given field in a given country should tend to mean more internationally visible publications originating from that country. We shall analyze below the possible measurable (and still indirect, as no direct causal links can be shown) effects of the devalorization of the research mission in Polish universities and show a growing powerful disciplinary divide within public universities with which Polish higher education will have to cope in the coming years.

The three strongest academic fields throughout the 1996-2010 period have been physics and astronomy, mathematics, and chemistry (globally ranked 13, 13 and 14 in 2010, by the number of publications; we disregard here a further disaggregation between publications originating from universities and from research institutes, for the sake of simplicity). In 1996, these three fields were globally ranked roughly in the same, relatively high positions (13, 15 and 12, respectively). The weak fields, in contrast, include arts and humanities, social sciences, and economics, econometrics and finance, ranked relatively low in 2010 (39, 39 and 37, respectively). In 1996, two of the three fields – arts and humanities, and social sciences – were ranked much higher (24, 24, respectively; the third field was 37). We study here the

trajectory of the internationally visible research output in the last fifteen years, by strong and weak fields of research, in comparison with three much smaller systems which were also undergoing postcommunist transitions: the Czech Republic, Hungary and Slovakia. We do not compare directly the total research output of the four countries in these academic areas and we do not control the data for the size of the academic profession: we merely compare the trajectories in the 1996-2010 period in two distinct groups of academic areas (strong performers and weak performers). The strong and the weak research performers in 2010 coincide with the scale of involvement in additional fee-based teaching in the last two decades, and apparently different normative views on the healthy teaching/research balance in prestigious universities. Strong research performers followed traditional academic rules and norms while weak (and weakening) performers eagerly used teaching opportunities provided by the expanding public and private sectors.

There are many reasons why, in general, the natural sciences and related fields were able to maintain its relatively high position both in the global and regional (Central European) knowledge production in 1996-2010 and why the social sciences and related fields performed, by comparison, much worse. One of them, we claim here, is the individual academic and institutional focus on teaching and the teaching mission, and the individual academic and institutional devalorization of research and the research mission in faculties of arts and humanities, social sciences and economics and related in most prestigious Polish universities in which both research funding and research production have been heavily concentrated. The private sector, demand-absorbing and almost fully teaching-oriented, has been focused on selected high-demand low-cost fields only: the share of the “social sciences, economy and law” OECD category was almost 75% in 2000, and the share of “science” was below 5% (by 2010, it has decreased to about 54% and increased to about 5.5%, respectively) . Also in the public sector, the biggest growth in enrollments occurred in the same soft fields: throughout the 2010s, more than 60% of enrollments were in three fields: social sciences, economy and law, humanities and arts, and education.

Poland in those fields in which massive expansion occurred has lost significantly its international research visibility, both from global and regional perspectives. While in the global ranking (all fields), Poland moved down the ladder from rank 16 (1996) to rank 18 (2003) to rank 20 (2010), its still relatively good position is due mostly to those fields in which academics and departments had virtually no opportunities to focus on additional paid

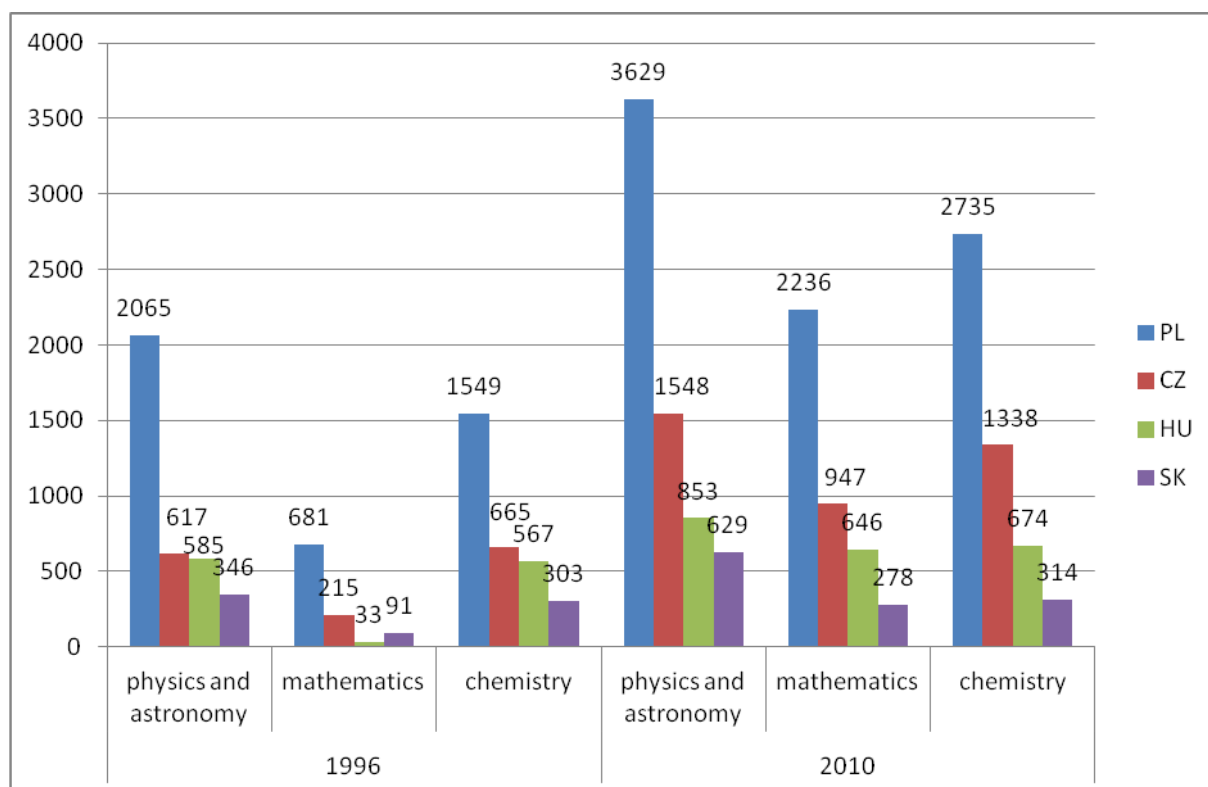
teaching, especially no opportunities for multiple employment in the private sector. No private higher education institution lured academics from Polish universities in such fields as chemistry, physics, astronomy and mathematics, the four fields ranked globally highest.

From a regional perspective (Poland compared with the Czech Republic, Hungary and Slovakia), not surprisingly, given the size of higher education and research systems, Polish chemists, physicists and astronomers, and mathematicians published more international papers than their colleagues from the three other countries combined both in 1996 and in 2010, see Chart 1 below.<sup>2</sup> Their publications accounted for 55.7% and 54.3% of all publications from the four countries in respective years. The supremacy of Polish academics, in statistical terms, has been maintained throughout the period, as shown below in Chart 1 (in 1996, there were 4295 Polish publications in a pool of 7717 coming from the four countries; in 2010, the numbers were 8600 and 15827, respectively).

Chart 1. The number of publications in the academic fields of “physics and astronomy”, “mathematics” and “chemistry”, by country, 1996 and 2010 (own calculations based on SCImago Journal & Country Rank, 2012).

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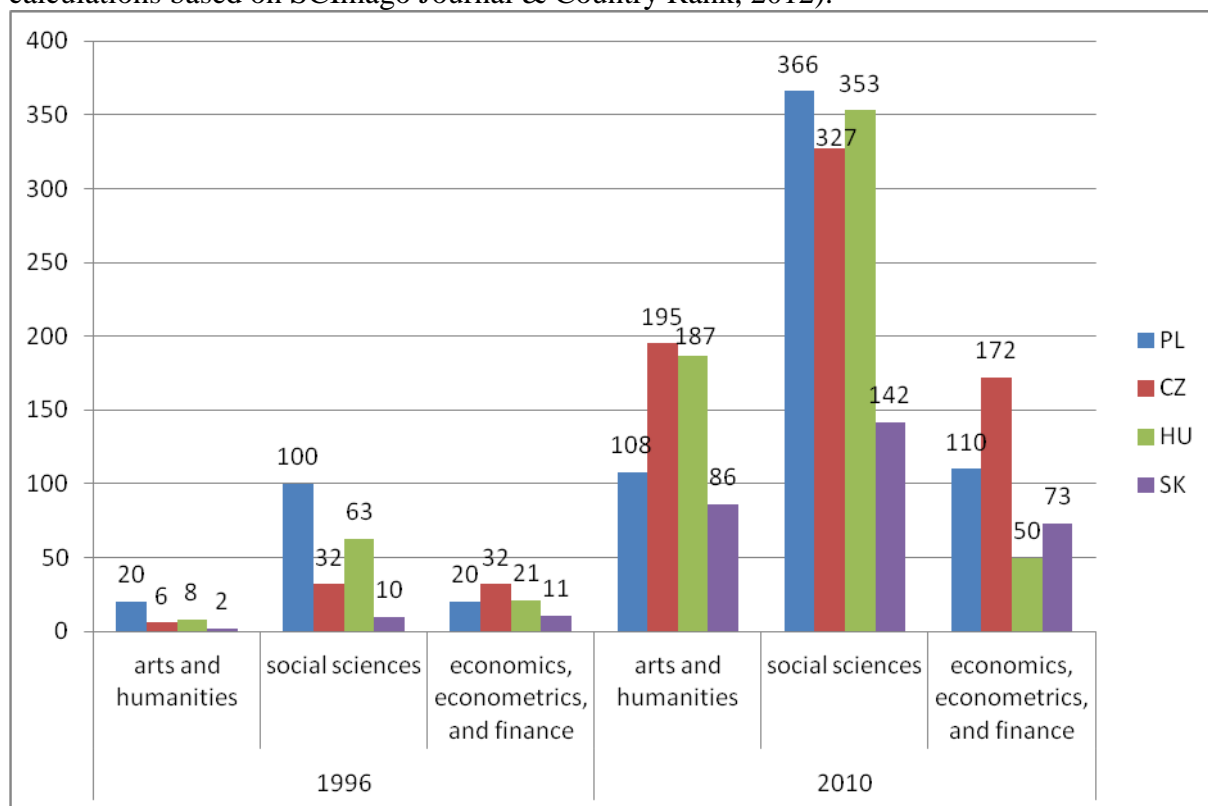
<sup>2</sup> In terms of the total number of researchers, full time equivalent, in Poland in 2000 there were about 34.000 researchers in the higher education sector and about 11.000 researchers in the government sector. In the higher education sector, compared to Poland, there were about six times less researchers in Hungary, seven times less in Slovakia and nine times less in the Czech Republic. In the government sector, the differences were equally marked: about four times less in Slovakia, and 2.5 times less in both Hungary and the Czech Republic, Eurostat 2012).



What is important for us here, though, is the cross-country differences in national research outputs in 1996-2010 in soft, expansion-linked fields. Data show (see Chart 2 below) that research output in those fields (in which private higher education and part-time teaching expanded), as opposed to hard fields, has been decreasing systematically compared with research output of regional competitors. In 1996, in soft areas, the share of Polish research output in the output from the region was relatively high in both arts and humanities (55.6%) and in social sciences (48.8%) (it was much lower in economics and related areas: 23.8%). In 2010, though, in the arts and humanities, the number of Polish internationally visible publications was only about half of the number of publications of their colleagues from the Czech Republic and Hungary, and only slightly more than those from Slovakia (Polish publications in the arts and humanities accounted for only about 23% of all publications from the four countries). In social sciences, the total number of internationally visible publications by Polish, Czech and Hungarian academics was about the same, and in economics and related areas – Polish research output was much lower than the Czech one. But, at the same time, the Polish higher education and research systems are huge by comparison (Poland had more academics than the three other countries combined throughout the 1996-2010 period which was clearly reflected in the research output in 1996 in all areas. In soft areas, Poland in 2010 was clearly lagging behind its regional competitors: while in 1996, there were 140 Polish

publications in a pool of 325 coming from the four countries, in 2010, there were only 584 publications in a pool of 2169. The slide in the Polish share in soft academic areas was from 43% to 26.9% in the period studied, as shown in Table 3 below).

Chart 2. The number of publications in the academic fields of “arts and humanities”, “social sciences”, and “economics, econometrics, and finance”, by country, 1996 and 2010 (own calculations based on SCImago Journal & Country Rank, 2012).



The details for the 1996-2010 period for both soft and hard academic areas are given below in Tables 1 and 2.

Table 1. The number of publications in the academic fields of “arts and humanities”, “social sciences”, and “economics, econometrics, and finance”, by country (own calculations based on SCImago Journal & Country Rank, 2012).

		PL	CZ	HU	SK
1996	arts and humanities	20	6	8	2
	social sciences	100	32	63	10
	economics, econometrics, and finance	20	32	21	11
2010	arts and humanities	108	195	187	86
	social sciences	366	327	353	142
	economics, econometrics, and finance	110	172	50	73

Table 2. The number of publications in the academic fields of “physics and astronomy”, “mathematics” and “chemistry”, by country (own calculations based on SCImago Journal & Country Rank, 2012).

		PL	CZ	HU	SK
1996	physics and astronomy	2065	617	585	346
	mathematics	681	215	33	91
	chemistry	1549	665	567	303
2010	physics and astronomy	3629	1548	853	629
	mathematics	2236	947	646	278
	chemistry	2735	1338	674	314

Thus, in the period analyzed, coinciding with the expansion of higher education in soft academic areas and with opportunities to hold multiple full-time and part-time jobs in these areas, hard academic fields managed to maintain their high positions (both globally and in the region) and soft academic fields noted a downward slide in their positions. In particular, the share of Polish publications in arts and humanities and in social sciences in publications coming from the four regional economies studied slid dramatically from 55.6% to 18.8%; in social sciences it slid from 48.8% to 30.8% in 1996-2010 (see Table 3 below). Research productivity across academic areas and across the four regional higher education systems clearly shows that soft areas in Poland were powerfully affected by the processes of the deinstitutionalization of the research mission in universities.

Table 3. The share of Polish publications in selected hard academic fields (“physics and astronomy”, “mathematics” and “chemistry”) and selected soft academic fields (“arts and humanities”, “social sciences”, and “economics, econometrics, and finance”, combined, 1996 and 2010, in % (own calculations based on SCImago Journal & Country Rank, 2012).

Academic fields	1996	2010
physics and astronomy	57.2	54.5
mathematics	66.8	54.4
chemistry	50.2	54.0
arts and humanities	55.6	18.8
social sciences	48.8	30.8
economics, econometrics, and	23.8	21.4
selected hard academic fields	55.7	54.3
selected soft academic fields	43.0	26.9

Another proxy indicator to measure faculty research engagement across academic fields in the Polish case is the changing annual number of the Habilitation (or postdoctoral) degree and professorship titles (full professor) awarded in Poland in the last decade. Both are awarded centrally (that is, independently of higher education institutions) and entirely on the basis of research achievements. As in the case of internationally visible publications, we shall demonstrate cross-fields differences between hard and soft disciplines.

In the 1999-2010 period, the overall number of both Habilitation degrees and professorship titles has decreased, from 915 to 859 (by 6.12%) and from 630 to 459 (by 27%), respectively. In the same period the research community in all sectors of performance increased by about 22,000 researchers (or by 28%, from 78,091 in 1999 to 100,151 in 2010). Both stable and decreasing number of Habilitations and professorships in an expanding system clearly indicate decreasing research engagement of the academic faculty in general. As in the case of publications, also in the case of the research-based academic promotions Polish universities are heavily divided according to academic fields. We have contrasted again chemistry and physics on the one hand, as those fields in which holding multiple employment was not possible, with the humanities (which in the Polish statistics include also arts and social sciences) and economics, as those fields in which holding multiple employment was the general rule. The most striking difference between the former and the latter academic fields are in the number of professorships awarded in 1999 and 2010: while in chemistry and physics it has slightly increased (by 6-8%), in the humanities it has decreased by over one third (34.62%), and in economics it has decreased by almost two thirds (62.79%). The data are given below.

Chart 3. The number of Habilitation degrees and professorship titles in 1999-2010 in selected academic disciplines.

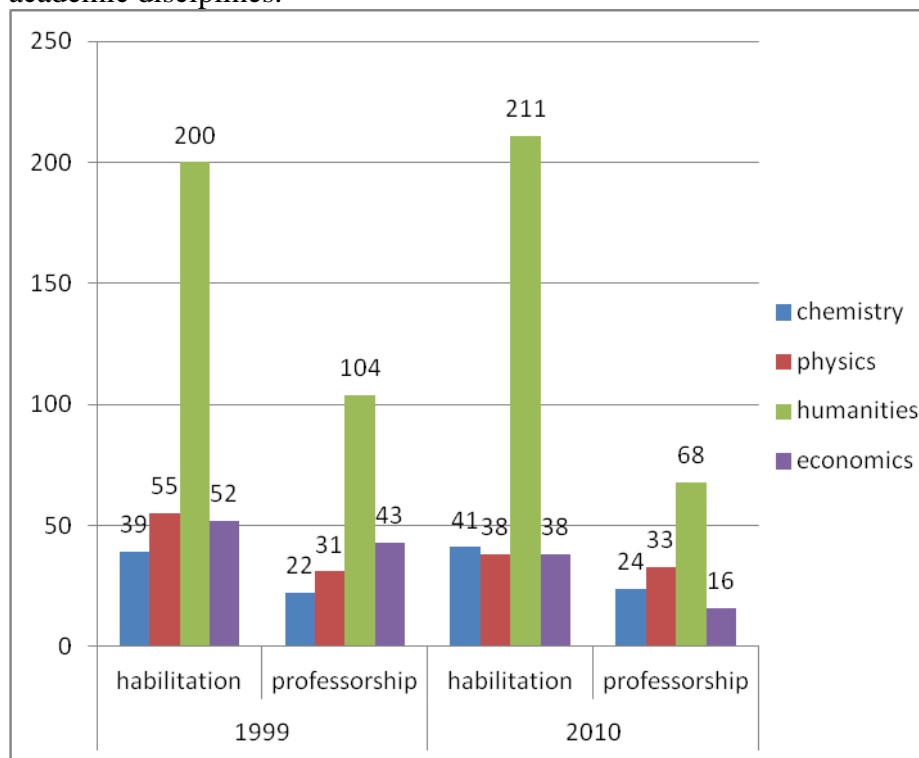
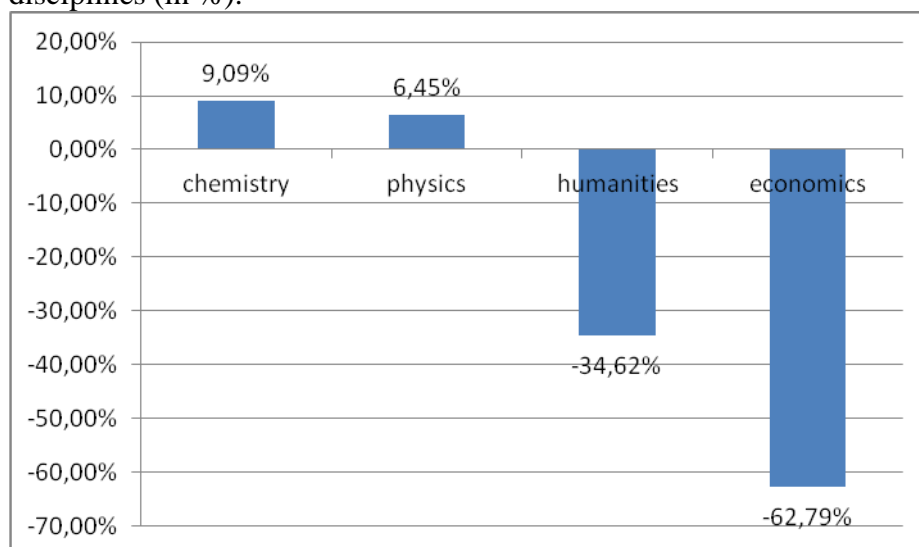


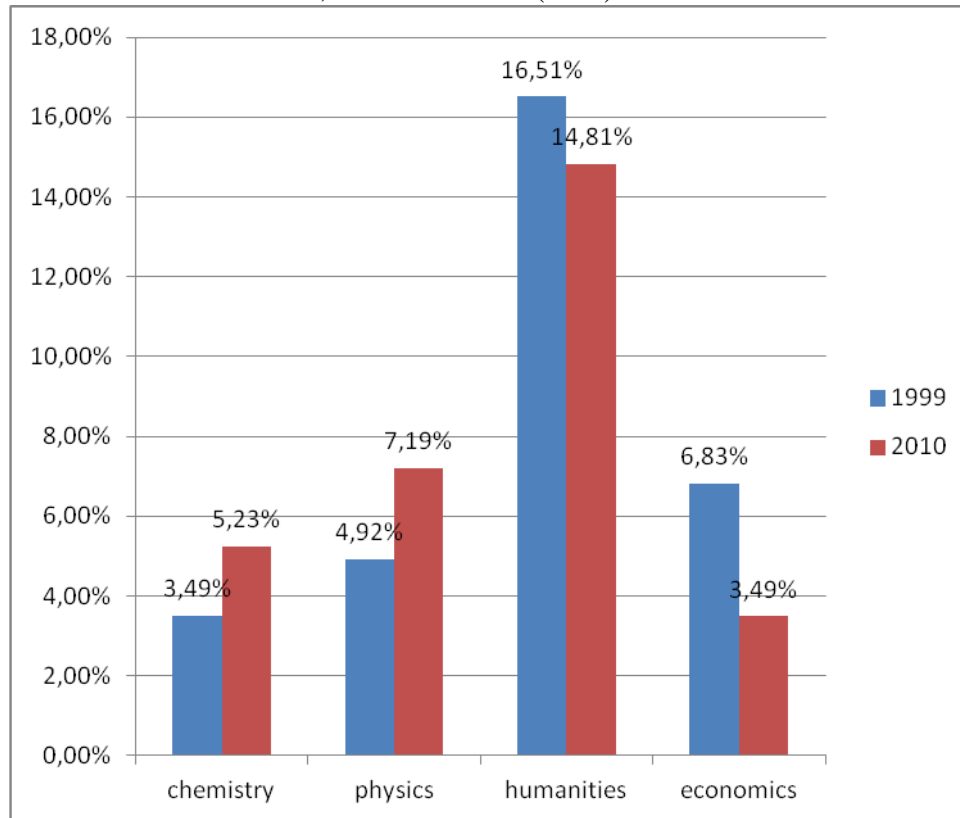
Chart 4. The change in the number of professorship titles in 1999-2010 in selected academic disciplines (in %).



The share of professorships awarded in chemistry in all professorships awarded have increased substantially: from 3.49% to 5.22%; for physics, the increase has been from 4.92%

to 7.18%; in contrast, for the humanities, the decrease was from 16.50% to 14.81% and for economics from 6.82% to 3.49%.

Chart 5. The change in the share of professorship titles in all professorship titles awarded in selected academic fields, 1999 and 2010 (in %).



The above brief analysis of research-based promotions clearly demonstrates that there is a powerful disciplinary divide within Polish higher education, especially within prestigious universities which provide the vast majority of internationally visible publications and where the vast majority of full professors are employed. The devalorization of the research mission in research universities refers directly to those fields in which teaching expanded in both sectors. Both global and Central European comparisons in research production in 1995-2010 and inter-disciplinary comparisons of academic degrees awarded in Poland in 1999-2010 clearly show the soft academic fields as those in which the traditional academic norms ruling in prestigious universities failed.

Thus public universities in the postcommunist period have been increasingly becoming divided institutions, following different rules and engaging in different university missions.

The taken-for-granted academic norms prevailing in research universities were suspended in several major academic fields (in soft disciplines) in the transition period of between a decade and a decade and a half. The traditional “logic of appropriateness” (March and Olsen 2006a) in research universities was weak and unable to stop the turning of huge individual and institutional energy into additionally paid teaching, especially in profit-driven, although nominally non-profit, private sector. All sorts of public justifications for and rationales of holding multiple academic posts were created throughout the expansion period. The massive involvement of academics in the development of private higher education led to the gradual devaluing of the research mission of public research universities where they kept their primary employment. From an institutionalist perspective, the “logic of appropriateness” assumes that:

Rules are followed because they are seen as natural, rightful, expected and legitimate. Actors seek to fulfill the obligations encapsulated in a role, an identity, a membership in a political community or group, and the ethos, practices, and expectations of its institutions (March and Olsen 2006a: 689).

The collapse of communism in general, and the emergence of the private sector combined with impoverishing salaries in public higher education in particular, made traditional academic rules and norms constituting research-based prestigious universities look no longer natural, rightful, expected, and legitimate. The rules and the norms were temporarily suspended. The expansion period was the period of the deinstitutionalization of traditional academic rules and norms constituting the essence of public research universities (and, despite heavy ideologization, prevalent under the communist rule), with uncertainty about which academic behaviors were legitimate and what was the core of the academic identity in top universities. One of the fundamental consequences of the large-scale phenomenon of the growth of the private sector in 1995-2005 was limited academic pressure on reforming public universities, including limited pressure on increasing academic salaries in the public sector. Salaries in the period were extremely low but holding multiple posts in both public and private sectors was treated as a reasonable and academically acceptable survival strategy of the academic community.

The (temporary, from a historical perspective) suspension of traditional academic norms highly valuing research activities in top national institutions and the (temporary) acceptance

of new academic codes of behavior, have contributed to the phenomenal growth of the private sector on the one hand and, on the other, to a substantial decline in research performance of the public sector and its lost research aspirations, particularly in soft disciplines, as shown above. A (partially) self-imposed decrease in research aspirations of the academic community in the 1990s has clearly led to a decrease in research funding: academics were a weak, divided interest group, both unable and unwilling to demand higher research funding. From a regional comparative perspective, while expenditures on research and development as a share of GDP in 2000-2010 increased in Poland only marginally (from 0.64% to 0.74%), at the same time the increase in the Czech Republic was from 1.17% to 1.56%, in Hungary from 0.81% to 1.16% and only in Slovakia it marginally decreased (from 0.65% to 0.63%, Eurostat 2012). One of the explanations of underfunding of research is a large-scale teaching focus of the university sector, and too mild academic pressures, especially organized, on increasing expenditures on research (the academic community being one of powerful interest groups involved in the competition for public resources through lobbying efforts, see Tandberg 2010).

#### **4. Polish reforms: institutional and instrumental views of the university**

From a historical perspective, there was a single national policy emphasis for the higher education sector in Poland after it had been granted academic freedom and institutional autonomy in 1990: it was increasing access to higher education. The refocusing of soft fields in universities on teaching and their growing international isolation, including decreasing measurable international research output, were systematically ignored by policymakers. Relatively small-scale changes in public higher education in a decade and a half (1990-2005) have only recently been followed by large-scale changes in 2010-2011. New regulations culminated in an amendment to the 2005 Law (of March 18, 2011, generally regarded as a new law), which introduced new rules of the academic game: universities are increasingly becoming instruments for national political agendas and their research output plays an increasingly important role in future funding arrangements. Polish universities, after drifting for about two decades with the tide of the expansion period, are currently expected to undergo fundamental transformations in their missions, governance structures and modes of funding. The overemphasis on teaching of most prestigious research institutions seems to be

increasingly obsolete in the contraction period, with the number of students expected to decrease from about 1.8 million in 2011 to about 1.2 million in 2025 (Kwiek 2011).

Recent reform packages introduce new rules of the academic game in which funding for research is strongly linked to measurable research output. In the current wave of reforms, a new model of competitive, mostly grants-based research funding, disbursed by two new national research councils, administered by academics and independent from state authorities (the NCN for fundamental research and the NCBiR for applied research) is being introduced. New mechanisms of allocating research funding are much more performance-based and aim at providing competitive individual or group research grants rather than institutionally-distributed subsidies for research. Nevertheless, national research funds as a share of GDP are increasing very slowly.

March and Olsen (2006b: 14) draw a distinction between incremental and fundamental changes, or “changes within fairly stable institutional and normative frameworks” and “changes in the frameworks themselves”. Central European transformations in higher education in the early 1990s clearly belonged to the radical, latter category, while transformations in the 2000s are more of the incremental, former category. But in the Polish case, recent reforms could have a potential of changing again “the frameworks themselves”. They clearly mean the construction of new institutional norms and new academic codes of behavior, intended to replace formerly predominant ones in the expansion period.

Transformations of Polish universities can be viewed as resulting from several powerful, interrelated, internal and exogenous, pressures. First, there were internal pressures to continue with academic rules, norms, and organized practices inherited from the communist period. Second, there were internal institutional pressures to survive in the turmoil of economic “shock therapies” of the beginning of the 1990s and beyond and in the midst of fundamental financial austerity (this is where resource dependence perspective could be useful: as Pfeffer and Salancik (2003: 2-3) argue, “the key to organizational survival is the ability to acquire and maintain resources”, and this is what was key in the 1990s). And, third, there were internal and exogenous pressures to design new academic norms, rules and organized practices, responding to the guiding principles of the reforms in the early 1990s: academic freedom and institutional autonomy. Transformations of universities in the 1990s were specific in kind, and distant from those ongoing in Western Europe at that time and in the

previous decade (see Kwiek 2006, and, for a panoramic view of transformations in Western Europe, especially, Neave and van Vught 1991, 1994). They led to the erosion of traditional rules and norms in large parts of Polish top universities and to the questioning of established organizational practices in those areas which witnessed huge numerical expansion. The balance between teaching and research in soft disciplines became suspended in 1990s and partly in 2000s, leading to temporary devaluation of research activities.

Thus Polish universities in the early transition period found themselves in a temporary normative, social and cultural vacuum. Suddenly, academic institutions had to face huge organizational and financial challenges and had no elaborate guidance on how to follow. In the 1990s, there were no clear national policies or clear national strategies in higher education. Inherited academic identities, norms, rules and habits, patterns of thinking and acting, routines, practices and academic ethos, were useful in institutional survival strategies only to some extent. Rule-following (traditional rules), for a decade and a half, did not work, as rules inherited from the communist period were deemed obsolete, authoritarian, anti-democratic. External shocks related to “postcommunist transition” in economy and the financial austerity prevalent throughout the 1990s were driving the dynamics of institutional change. Universities were driven by expansion-related phenomena and academic institutions (and academics themselves) were responding in the way a resource dependence model expects them: seeking how to manage to survive, in the mutual processes of interaction between organizations and their environments (Pfeffer and Salancik 2003: 258-262), at both micro-level of individuals and meso-level of institutions.

We argue here that the new academic culture that emerged in the 1990s, with a major feature of the deinstitutionalization of the research mission, is still defining codes of academic behavior. In the 1990s, new, temporary patterns of academic behavior emerged and routines and practices which took root in institutions were delinked from previous routines and practices. Research became heavily underestimated, at both the individual and the institutional level in internal policies of top public universities, especially in soft academic disciplines. What is important for the future is that norms, attitudes and codes of behavior are changing very slowly, as empirical studies of the academic profession show. In a recent (2010) large-scale survey of the academic profession in Europe, Polish academics are much different from their colleagues from most Western European systems in their self-declared teaching/research

preferences.<sup>3</sup> Polish academics prefer research to teaching much less frequently than their Western European colleagues (only 11% of them show their interest “primarily in research”, compared with Norway and Austria with 31%, Finland with 29%, Switzerland and the UK with 27% and Germany with 26%. Poland has one of the lowest scores in Europe, together with Ireland with 9% and Portugal with 7%, and slightly below Italy with 12% and the Netherlands with 14%). The direction of future changes in the Polish academic profession is unclear but the 2010 attitudes, from a European comparative perspective, do not favor research activities.<sup>4</sup> The weakening of traditional rules (which in Polish research universities meant the Humboldtian combination of teaching and research) resulted from the coexistence of financially deprived public sector institutions and financially thriving private sector institutions, followed by the emergence of large-scale fee-paying studies in the public sector itself. The privatization of higher education led to a fundamental reconfiguration of which academic actions were believed to be “appropriate, natural, and legitimate” (Olsen 2010: 127) in public universities. Essentially, the shadow of the austere 1990s and individual and institutional survival strategies of the 1990s continue to have a powerful negative impact on new generations of researchers.

A useful distinction between instrumental and institutional perspectives in viewing the university was offered by Peter Maassen and Johan P. Olsen (2007: 27). In an instrumental perspective, the university is involved in a “set of contracts”: “support, economic and otherwise, depends on contributions. Change reflects a continuous calculation of relative performance and costs”. An institutional perspective, in contrast, assumes that well-entrenched institutions “reflect the historical experience of a community, that they take time to root and they are difficult to change rapidly and radically”. As an institution, the university is involved in a pact based on “long-term cultural commitments”. The instrumental view of

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<sup>3</sup> The EUROAC research project (“The Changing Academic Profession in Europe: Responses to Societal Challenges”, 2009-2012) was run for seven European countries, coordinated by Ulrich Teichler of Kassel University and funded by the European Science Foundation. Its Polish component included about 4.000 returned surveys and 60 interviews and was coordinated by the present author (the team included also Dr. Dominik Antonowicz).

<sup>4</sup> The EUROAC question was Question B2: “Regarding your own preferences, do your interests lie primarily in teaching or in research?” (EUROAC project database, January 2012, University of Kassel; the count (n) was generally 900-1500 academics per country studied, and it was much higher – more than 3500 – for Poland).

the university dominates most reform programs and debates, both at the European level and at national levels. Recent Polish reforms are a perfect example of tensions between viewing the university as an institution (by the Polish academic community) and viewing it as an instrument for national political agendas (by the Polish government). In Poland, as well as throughout Europe, reform initiatives in higher education lead to new reform initiatives; as Nils Brunsson put it with reference to all organizations in modern society, “large contemporary organizations, whether public or private, seem to be under almost perpetual reform-attempts at changing organizational forms” (Brunsson 2009: 1; see Brunsson and Olsen 1993).

Recent reform initiatives may be regarded as the beginning of a passage from one order to another order, with different normative (and organizational) principles (Olsen 2008: 9), or as reinstitutionalization processes relevant for the post-expansion era in which the role of research at both individual micro-levels and institutional meso-levels in prestigious universities substantially grows. The ministerial documents defining “basic assumptions” of the reform show the extent to which the new order is potentially different from the previous one. There are six major weak areas in Polish higher education to which new legislation responds: no funding streams awarded to universities directly on the basis of high quality teaching and research; low levels of internationalization of studies; the inadequate structure of study programs, with huge overrepresentation of the social sciences and educational sciences; complicated career ladders for academics; obsolete management modes; and weak links between universities and their socio-economic environments. The reform is intended to have an impact on all six areas.

Polish public higher education is still operating according to traditional Humboldtian rules of the game, i.e. the rules of the university understood as a “rule-governed community of scholars” (Olsen 2007: 29-31), with an important difference discussed throughout the paper: the programmatic micro- and meso-level focus on teaching and teaching-related resources. While in Western European systems the co-existence of different models (the traditional institutional model and various Olsen’s instrumental models in which the university is merely a tool for different purposes) is prevalent, in Poland reforms are intended to replace a ruling traditional model, transformed only marginally in the last 20 years, with Olsen’s model of the university as an “instrument for national political agendas”. A shift in policy thinking and in new legislation has a clear direction: away from a faculty-centered model (with academic

freedom represented, *inter alia*, in the form of the consistent disregard for the research mission in internally divided, mission-differentiated universities), and towards a model in which the university's role is to follow consistently national political agendas (with growing emphasis on research in ever more concentrated areas and institutions, according to strict national governmental priorities). Surprisingly, while all other public sector services are increasingly being reconceptualized towards market-like models (see Kwiek 2007), public higher education seems to be reconceptualized as a new tool for national political agendas, with surprisingly limited encouragement to be more market-oriented.

Polish reform programs, as in other European countries, are driven by an instrumental view of the university, while the logic of possible developments suggested by the Polish academic community is traditional and institutional. The instrumental/institutional divide is where powerful tensions related to new reforms have their roots. In Poland, as opposed to Western European systems, it was academically-driven institutional logic in the last two decades that seems to have deinstitutionalized the research mission in public universities; it is with the new institutional logic of the recent reform package that the research mission can be reinstitutionalized in top research performing universities (but under new conditions and guided by strict national priorities). Surprisingly, the traditional research mission seems to have been only recently defended by policymakers and their instrumental views of the university. The traditional institutional view of the university represented by the Polish academic community in soft academic disciplines was unable to maintain the growth in university knowledge production at levels comparable to its regional competitors, as the empirical part of the paper shows.

## 5. Conclusions

The paper puts recent higher education reforms in Poland in a wider context provided by the changing codes of academic behavior leading to the lack of balance between major university missions: the exaggerated teaching-focus and the devalorization of research. Polish universities are therefore increasingly viewed by policymakers from an instrumental, rather than institutional, higher education policy perspective and one of the reasons is the perceived failure of the institutional view (and especially the view of the university as a "rule-governed community of scholars") in leading to the growth in internationally visible (and

internationally measured) knowledge production. As elsewhere in Europe, Polish reforms rationalize universities as organizations and are leading to their gradual construction as ever more formal organizations (rather than socially-rooted, traditional, and distinct institutions). New legislation brings about the revalorization of the research mission of most prestigious public universities, massively abandoned in the expansion era (1990-2005), especially in soft disciplines in which the rapid growth of enrollments occurred and in which private higher education was concentrated. In the contraction era (in which the number of students is expected to decrease by 30% by 2025), a return to the traditional balance between teaching and research engagement is expected.

The new law on higher education seems to be saying goodbye to the deinstitutionalization processes of the research engagement of Polish universities, as documented in the paper, and to guide them to become substantially more research-intensive. From the perspective of two decades, the recent legal change originating from a new, instrumental vision of the university, is interpreted as the reinstitutionalization of the research mission of Polish universities, or a passage from one normative and institutional order to another. The empirical data show that in the currently divided academy, the passage to a new order introduced by new higher education and research legislation may be much more difficult for the academic community from those fields which were massively expanding in both public and private sectors. As in the case of any public sector reforms, there will be institutional (and individual academic) winners and losers in the process of bringing research activities back to universities through new governance and funding mechanisms. It is hard to predict the outcomes knowing that, as observed in organizational research by Olsen (1998: 322) fifteen years ago, “decisions to change often do not lead to change, or they lead to further unanticipated or unintended change. Institutional reforms breed new demands for reforms rather than making reforms redundant”.

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